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16-Jan-1996 18:10

OBJECTS.CPP

```

"Genio".
0.0.0.0.0.0.
"Reserved for ISP Names"
};

const char *ISPNames[] = {
    "ISP",
    "NetCom",
    "PSI",
    "UUNET",
    "Advantis",
    "Concentric Research Corp.",
    "CRL",
    "MCI",
    "Portal Information Network"
};

const char *salesStr[] = {
    "Unknown",
    "$1 - $49,999",
    "$50,000 - $99,999",
    "$100,000 - $249,999",
    "$250,000 - $499,999",
    "$500,000 - $999,999",
    "$1 million - $4,999,999",
    "$5 million - $9,999,999",
    "$10 million - $49,999,999",
    "$50 million - $99,999,999",
    "$500 million - $999,999,999",
    "$1 billion and over"
};

const char *empStr[] = {
    "Unknown",
    "1 - 4",
    "5 - 9",
    "10 - 14",
    "15 - 19",
    "20 - 49",
    "50 - 99",
    "100 - 499",
    "500 - 999",
    "1,000 and over"
};

const char *genderStr[] = {
    "Unknown",
    "Male",
    "Female"
};

const char *timesStr[] = {
    "12am-1am",
    "1am-2am",
    "2am-3am",
    "3am-4am",
    "4am-5am",
    "5am-6am",
    "6am-7am",
    "7am-8am",
    "8am-9am",
    "9am-10am",
    "10am-11am",
    "11am-12pm",
    "12pm-1pm",
    "1pm-2pm",
    "2pm-3pm",
    "3pm-4pm",
    "4pm-5pm",
    "5pm-6pm",
    "6pm-7pm",
    "7pm-8pm",
    "8pm-9pm",
    "9pm-10pm"
};

```

16-Jan-1996 18:10

OBJECTS.CPP

```

// objects.cpp
#include "stdafa.h"
//-----
const char *uniqueNames[] = {
    "Unknown", "No", "Unlikely", "Likely", "Yes"
};

const char *browserNames[] = {
    "Unknown",
    "MCSA Mosaic",
    "AOL Browser",
    "HotJava",
    "Microsoft",
    "OmniWeb",
    "Lynx",
    "NetCruiser",
    "IBM WebExplorer",
    "AIR Mosaic/Spry Mosaic",
    "Necheb",
    "NetManage Chameleon",
    "NetSurfer",
    "Enhanced Mosaic",
    "World Browser",
    "Prodigy Browser",
    "Delphi Browser",
    "CIN Browser",
    "InterNotes",
    "Wolllong/ATM EmLibrary",
    "PipeMacheb",
    "InternetMCI",
    "Quarterdeck Mosaic"
};

const char *osNames[] = {
    "Unknown",
    "Win16",
    "Win32",
    "Windows",
    "V386",
    "WinNT",
    "OS/2",
    "Macintosh",
    "Mac 68K",
    "Mac PowerPC",
    "Unix (brand unknown)",
    "Unix (other)",
    "Unix (Sun)",
    "Unix (Linux)",
    "Unix (HP)",
    "Unix (AIX)",
    "Unix (OS/2)",
    "Unix (IRIX)",
    "NEXT",
    "Unix (SGI)"
};

const char *domainTypeNames[] = {
    "Unknown",
    "Commercial", "Education", "Government",
    "Military", "X-12", "Foreign", "Networks",
    "Organisations"
};

0.

"AOL",
"Prodigy",
"Compuserve",
"Delphi",
"World",
"MSN",
"DowJones"

```

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DC 069496


```

//STATQUEST.CPP
//JAN-27-98

type = InfoRequest;
break;
case 'q':
    type = Sale;
    break;
default:
    ok = FALSE;
}

if( ok ) {
    const char *p = activityStr + 1;
    if( !p || '/' )
        ok = FALSE;
    else {
        p++;
        const char *q = strchr(p, '/');
        if( q == 0 )
            ok = FALSE;
        else
            sitekey = CString(p, q - p);
    }
}

if( ok ) {
    Database *db = GetFromPool();
    User *user = User::lookupUser(*db, userIP, request);
    DWORD advertiserID = 0;
    // todo: fix if not assigned a user ID, (use IP) skip logging
    if( user->userid != 0 ) // if not from LAN, skip logging
    {
        Cursor c(*db);
        c.bind(SQL_C_LONG, advertiserID, sizeof(advertiserID));
        char sql[1024] = "select id from advertisers where sitekey='";
        addValue(sql, sitekey, FALSE);
        c.execute();
        ok = c.fetchNext();
    }
}

db->commit();

if( ok ) {
    :activity++;
    if( advertiserID != 0 )
        logActivity(user, advertiserID, type);
}

delete user;
releaseToPool(db);
}

if( !ok ) {
    message( CString("invalidate activity str: ") +
             CString(activityStr).Left(80) );
    // sendErroric, "-104 Not Found");
}

void GetRequest::sendAd(const char *from)
{
    if( from && strlen(from) < 4 )
        from = "";

    Database *db = GetFromPoolTimeout();

    static DWORD lastFTP;
    startLatency = GetTickCount();

    User *user;
    SitePage *page;
    Ad *ad;

    user = User::lookupUser(*db, userIP, request, TRUE, TRUE);
    if( db == 0 ) {
        page = 0;
    }
}

```

```

Ad *ad = Ad::findSentToUser, from);

if( ad == 0 ) { // fail
    delete user;
    return;
}

SitePage *page = SitePage::lookupPage(from, request);

CString hdr =
    "HTTP/1.0 200 OK\r\nContent-Type: text/html\r\nPragma: no-cache\r\nContent-Length: ",
    buf + 0;
ostream text(buf, 32000, ios::out);

// fill content
text << "<html><body><h1>jump redirect</h1>";
text << "<p>";
text << "<script>" from document; // << from "<\r\n";
text << "</script>" // closing would jump to ;
text << "<a href='\"><< (const char *) ad->jumpTo << "\",>"
text << "<a href='\"><< (const char *) ad->jumpTo << "/>"
text << "</a>"
text << "<br/>"
text << "</body></html>";

CString fn = ad->fileName;
text << "<center><img src='\">"
text << (const char *) fn
text << "\"'>";
text << "</pre></body></html>";

int n = text.pcount();
char temp[100];
sprintf(temp, "%d", n); // content length
hdr << "Content-Length: ";
hdr << temp;
hdr << "\r\n";

c->write((const char *) hdr, hdr.GetLength());
c->write(buf, n);

logJump(ad, user, page);

delete page;
delete ad;
delete user;

*/
}

void GetRequest::sendFrame(const char *from)
{
    CString s = "HTTP/1.0 200 OK\r\nContent-Type: text/html\r\n";
    s << "<html><body><CENTER><a href='\">" http://206.4.219.5/jump/"
    s << from;
    s << "</body></html>";
    s << "<img src='\">" http://206.4.219.5/ad/"
    s << from;
    s << "</img></body></html>"; // width=468 height=60
    c->write((const char *) s, s.GetLength());
    c->write("\r\n");
}

void GetRequest::activity(const char *activityStr)
{
    // go ahead and send for best response time
    sendFile("c:\\lan\\html\\dot.gif");
    BOOL bad = FALSE;
    // send the file first
    activityType type;
    CString altkey;
    BOOL ok = TRUE;
    boolt activityStr)
    {
        case "a":
            type = Interest;
            break;
        case "i":
            type = Interest;
            break;
    }
}

```

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```

else {
    page = SitePage::lookupPage(db, from, request);
    ad = Ad::getAd(db, user, page, v == GET);
}

// if v == GET {
//     TRACE("get %s", from);
// }

static int randCutoff = 0; // RAND_MAX / 4;

bool doFTP = Inet::tempUserObject() &&
    user->isFtp() && user->isAnonymous() && ultimately && Inet::isFtp() &&
    rand() < randCutoff && (startLatency = lastFTP + 6000);

DPOHD del;
if (doFTP) {
    dw = waitForInetObject(Inet::tempUser(), 0);
    if (doFTP && dw != WAIT_FAILED && dw != WAIT_TIMEOUT) {
        lastFTP = startLatency;

        // Remember that we're doing FTP for user. Only do once.
        user->updateFtpried(db);

        // Redirect
        CString s = "Location: ";
        s += "ftp://206.4.219.6/";
        char buf[100];
        sprintf(buf, "%s", user->getId());
        s += buf;
        CString fn = ad->getFilename();
        s += (const char *) fn;

        errlog << "trying FTP\n";
        errlog << "user = " << user->getId() << "\n";
        errlog << "browser = " << browserNames[(int) user->browser] << "\n";
        errlog << "url = " << s << "\n";

        s = "\n";
        sendError(c, "302 Moved Temporarily", s);

        VERIFY(ReleaseMutex(cphMutex));

        logAdSend(ad, user, page);
        errlog.Flush();

        db->commit();
        releaseToPool(db);
    }
    else {
        // f.c.s.leave();
        send(db, ad, user);
        // this function calls releaseToPool()
        // f.c.s.enter();
        if (v == GET) {
            static int counter;
            if (++counter & 2) // update SI every 4 or so deliveries
                ad->scaleSI();

            rememberSend(ad, user, from);
            logAdSend(ad, user, page);
            if (user->isTimeout()) {
                if (db == 0)
                    poolTimeOut++;
            }
            else
                timeOut++;
        }
        // state
        // c->close(); // flush send
        DPOHD endSend = GetInetConn();
        // endLatency = startLatency;
    }
}

```

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```

}
}

// delete ad;
// delete page;
// delete user;

void GetRequest::takeJump(const char * _from)
{
    Database db = "getFromPool";

    // jumping here (from);
    // return;

    user = user = User::lookupUser(db, userIP, request, FALSE);
    if (from && strcmp(from, "www", 4) == 0)
        _from = "4";

    CString from;
    {
        const char *p = strchr(_from, '?');
        if (p == 0) {
            from = _from;
            char buf[512];
            sprintf(buf, "no map %d, %s, user == 0 ? 999 : (int) user->browser, (const char *
                message(buf);
        }
        else {
            from = CString(_from, p - _from);
        }

        Ad *ad = Ad::findSentToUser(_from);
        SitePage *page = SitePage::lookupPage(db, from, request);

        // f.c.s.leave();
        CString s = "Location: ";
        s += ad->jumpTo(// "7from-lat";
        s += "\n";
        sendError(c, "301 Moved Permanently", s);
        c->close();
        // f.c.s.enter();

        // Must do this so activity will be logged properly.
        // See GetRequest::activity().
        user->makePermanent(db);

        logJump(ad, user, page);

        delete page;
        delete ad;
        delete user;
        db->commit();
        releaseToPool(db);
    }
}

```

```
// getrequest.cpp
//
#include "stdafx.h"
#include "stream.h"
#include "d/cookie/socket.h"
#include "d/cookie/request.h"
#include "d/cookie/remember.h"
#include "d/cookie/ta_util.h"
#include "log.h"
#include "status.h"
#include "d/cookie/crit.h"
#include "d/cookie/db.h"
#include "d/cookie/dbutil.h"
#include "d/cookie/dbpool.h"

extern CriticalSection fast;
extern Database isfml;

extern ostream errLog;
extern int activity;

extern const char *browserNames[];

const char *progName = "AdSvr";

void message(const char *);

void recalcSI();

DWORD startLatency, endLatency;

// This used to prevent multiple concurrent FTP
// requests right now because our FTPD implementation
// only does one at a time.
//
extern HANDLE (pHucers;

void GetRequest::service()
{
    const char *p = strchr(request, ' ');
    if (p)
    {
        fileName = CString(request, p - request);
        else
        {
            fileName = request;
        }
        if (fileName.Left(4) == ".ad/")
        {
            sendad(iconst char * fileName + 4);
        }
        else if (fileName.Left(9) == ".adframe/")
        {
            sendframe(iconst char * fileName + 9);
        }
        else if (fileName.Left(16) == ".jump/")
        {
            sendjump(iconst char * fileName + 16);
        }
        else if (fileName.Left(10) == ".activity/")
        {
            activity(iconst char * fileName + 10);
        }
        else if (fileName.Left(17) == ".whoami/")
        {
            //crit ctfact;
            whoami();
        }
        else if (fileName.Left(10) == ".viewad/")
        {
            CString s(fileName + 10, (LPCTSTR)fileName + 10);
            s.Format("%c\\an\\ad\\%s", (LPCTSTR)fileName + 10);
            sendfile(s, fileName);
        }
        else if (fileName.Left(11) == ".state.htm")
        {
            sendError(c, "404 Not Found, Result: Forecast moved to another server");
        }
        else if (fileName.Left(10) == ".sendinfo/")
        {
            //state(iconst char * fileName + 10);
        }
        else if (fileName.Left(10) == ".sendinfo/")
        {
            //state(iconst char * fileName + 10);
            return;
        }
        else if (fileName.Left(4) == ".ad/")
        {
            // send info stuff
            //
            if (iconst char * fileName + 4);
        }
    }
    else if (fileName.Left(9) == ".sysstate")
    {
        sysstate();
    }
    else
    {
        const char *p = fileName;
        if (stricmp(p, ".java/") == 0)
        {
            if (strchr(p, ".") == 0)
            {
                sendFile(p);
            }
            else
            {
                sendError(c, "404 Not Found");
            }
        }
        else if (p == ".")
        {
            if (p == ".")
            {
                if (p == ".")
                {
                    // send default
                    sendFile(c:\\an\\html\\default.htm");
                    return;
                }
            }
            else if (strchr(p, '/') == 0 && strchr(p, '\\') == 0 &&
                strchr(p, ".") == 0)
            {
                CString s = c:\\an\\html\\;
                if (p)
                {
                    sendFile(p);
                }
                return;
            }
            sendError(c, "404 Not Found");
        }
        // Normally we adjust SI for an ad as it is delivered.
        // However occasionally should do all ads in case one hasn't
        // been delivered but time has passed.
        static int counter;
        if (++counter > 200) { // adjust constant as traffic increases
            counter = 0;
            Crit ctfact;
            if (AllFree) { // recalc SI for all ads
                recalcSI();
            }
            else {
                counter = 175; // try again soon
            }
        }
        const char cheader[] =
            "HTTP/1.0 200 OK\\nContent-Type: image/gif\\nContent-Length: ";
        // send() should commit the DN if it does any DN operations because
        // the caller commits ahead of time so that the transaction won't
        // remain open while the file is sent.
        void GetRequest::send(Database db, Ad *ad, User *u)
        {
            CString hdr = cheader;
            const BUFSIZE = 32000;
            char buf[BUFSIZE];
            Cookie sendCookie;
            if (ad != 0) {
                if (u->cookieCapable() && u->timeout)
                {
                    // If a user record already exists, it's probably because
                    // this IP address is shared with other users (proxy, IP pool,
                    // etc.). So, we want to create another record; we don't want
                    // to assign the same cookie to different people!
                    u->userid = 0; // create new record
                    // generate a cookie for the user
                }
            }
        }
    }
}
```

```
// getrequest.cpp
//
#include "stdafx.h"
#include "stream.h"
#include "d/cookie/socket.h"
#include "d/cookie/request.h"
#include "d/cookie/remember.h"
#include "d/cookie/ta_util.h"
#include "log.h"
#include "status.h"
#include "d/cookie/crit.h"
#include "d/cookie/db.h"
#include "d/cookie/dbutil.h"
#include "d/cookie/dbpool.h"

extern CriticalSection fast;
extern Database isfml;

extern ostream errLog;
extern int activity;

extern const char *browserNames[];

const char *progName = "AdSvr";

void message(const char *);

void recalcSI();

DWORD startLatency, endLatency;

// This used to prevent multiple concurrent FTP
// requests right now because our FTPD implementation
// only does one at a time.
//
extern HANDLE (pHucers;

void GetRequest::service()
{
    const char *p = strchr(request, ' ');
    if (p)
    {
        fileName = CString(request, p - request);
        else
        {
            fileName = request;
        }
        if (fileName.Left(4) == ".ad/")
        {
            sendad(iconst char * fileName + 4);
        }
        else if (fileName.Left(9) == ".adframe/")
        {
            sendframe(iconst char * fileName + 9);
        }
        else if (fileName.Left(16) == ".jump/")
        {
            sendjump(iconst char * fileName + 16);
        }
        else if (fileName.Left(10) == ".activity/")
        {
            activity(iconst char * fileName + 10);
        }
        else if (fileName.Left(17) == ".whoami/")
        {
            //crit ctfact;
            whoami();
        }
        else if (fileName.Left(10) == ".viewad/")
        {
            CString s(fileName + 10, (LPCTSTR)fileName + 10);
            s.Format("%c\\an\\ad\\%s", (LPCTSTR)fileName + 10);
            sendfile(s, fileName);
        }
        else if (fileName.Left(11) == ".state.htm")
        {
            sendError(c, "404 Not Found, Result: Forecast moved to another server");
        }
        else if (fileName.Left(10) == ".sendinfo/")
        {
            //state(iconst char * fileName + 10);
        }
        else if (fileName.Left(10) == ".sendinfo/")
        {
            //state(iconst char * fileName + 10);
            return;
        }
        else if (fileName.Left(4) == ".ad/")
        {
            // send info stuff
            //
            if (iconst char * fileName + 4);
        }
    }
    else if (fileName.Left(9) == ".sysstate")
    {
        sysstate();
    }
    else
    {
        const char *p = fileName;
        if (stricmp(p, ".java/") == 0)
        {
            if (strchr(p, ".") == 0)
            {
                sendFile(p);
            }
            else
            {
                sendError(c, "404 Not Found");
            }
        }
        else if (p == ".")
        {
            if (p == ".")
            {
                if (p == ".")
                {
                    // send default
                    sendFile(c:\\an\\html\\default.htm");
                    return;
                }
            }
            else if (strchr(p, '/') == 0 && strchr(p, '\\') == 0 &&
                strchr(p, ".") == 0)
            {
                CString s = c:\\an\\html\\;
                if (p)
                {
                    sendFile(p);
                }
                return;
            }
            sendError(c, "404 Not Found");
        }
        // Normally we adjust SI for an ad as it is delivered.
        // However occasionally should do all ads in case one hasn't
        // been delivered but time has passed.
        static int counter;
        if (++counter > 200) { // adjust constant as traffic increases
            counter = 0;
            Crit ctfact;
            if (AllFree) { // recalc SI for all ads
                recalcSI();
            }
            else {
                counter = 175; // try again soon
            }
        }
        const char cheader[] =
            "HTTP/1.0 200 OK\\nContent-Type: image/gif\\nContent-Length: ";
        // send() should commit the DN if it does any DN operations because
        // the caller commits ahead of time so that the transaction won't
        // remain open while the file is sent.
        void GetRequest::send(Database db, Ad *ad, User *u)
        {
            CString hdr = cheader;
            const BUFSIZE = 32000;
            char buf[BUFSIZE];
            Cookie sendCookie;
            if (ad != 0) {
                if (u->cookieCapable() && u->timeout)
                {
                    // If a user record already exists, it's probably because
                    // this IP address is shared with other users (proxy, IP pool,
                    // etc.). So, we want to create another record; we don't want
                    // to assign the same cookie to different people!
                    u->userid = 0; // create new record
                    // generate a cookie for the user
                }
            }
        }
    }
}
```

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```

// release DB here so that we don't keep a db connection occupied
// while sending the ad
db.Commit();
releaseToPool(tdb);

}

CFile f;
int n = 0;
if (v == GET) {
    CString s = ad->fullName();
    if (!f.Open(s, CFile::modeRead | CFile::shareDenyWrite)) {
        message("CStringt couldn't open ") + s;
        TRACE("couldn't open %s", (const char *) s);
        ASSERT(FALSE);
        return;
    }

    n = f.Read(buf, BUFSIZE);
    ASSERT(n != 0 && n != BUFSIZE);

} else {
    n = getPI(s, ad->fullName());
    // next line is a test for MCSA Mosaic HEAD
    //n = 1;

    char temp[100];
    (sizeof, temp, 10); // content length
    hdr = temp;
    if (!sendCookie(temp)) {
        "Ninet-Cookie: JAF-111; path=/; expires=Wed, 09-Nov-99 23:59:00 GMT";
        sendCookie(value);
        hdr = temp;
    }

    // last-modified time
    hdr = "\nLast-Modified: " + curHTTPTime();

    // test
    //hdr = "\nPragma: no-cache";

    hdr = "\n\n";
    endLatency = GetTickCount();

    c-writef (const char *) hdr, hdr.GetLength();
    if (v == GET) {
        c-writef(buf, n);

        // diagnostic
        void GetRequest::printState()
        static char *types[] = {
            "Normal",
            "Test",
            "Header",
            "Jan Dev"
        };

        CString hdr =
            "HTTP/1.0 200 OK\r\nContent-Type: text/html\r\nContent-Length: " +
            char buf[10000];
        ostream text(buf, 10000, ios::out);

        // fill content
        text << "<body bgcolor=ffffff>\r\n";

```

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```

text << "<table border=1 cellpadding=1>";
text << "<tr><td>dbName/b>/<td>dbType/b>/<td>dbSize/b>/<td>";
text << "<tr><td>dbName/b>/<td>dbType/b>/<td>dbSize/b>/<td>";
text << "<tr><td>dbName/b>/<td>dbType/b>/<td>dbSize/b>/<td>";

// Get a db connection to lock the ads array so that
// it isn't reloaded or anything while we are processing.
Database *db = getFromPool();

for (int i = 0; i < ads.GetSize(); i++) {
    ad *ad = ads->GetAt(i);
    text << "<tr><td>href=http://ad.lanTargets.com/viewad/";
    ad->fullName() << "<td>";
    text << ad->fullName() << "<td>";
    text << ad->fullType() << "<td>";
    text << ad->fullSize() << "<td>";
    text << ad->fullShow() << "<td>";
    text << ad->fullImpressions() << "<td>";
}

releaseToPool(tdb);

text << "</table>";
text << "</body></html>";

int n = text.pcount();
char temp[100];
(sizeof, temp, 10); // content length
hdr = temp;
hdr = "\n\n";

c-writef (const char *) hdr, hdr.GetLength();
c-writef(buf, n);

// diagnostic
void GetRequest::printState()
Database *db = getFromPool();
user *user = User::lookupUser(db, userIP, request);
user->lookupancillaryInfo(db);

CString hdr =
    "HTTP/1.0 200 OK\r\nContent-Type: text/html\r\nContent-Length: " +
    char buf[10000];
    *buf = 0;
    ostream text(buf, 10000, ios::out);

// fill content
text << "<html><body bgcolor=ffffff><img src='\" + logoPath + \"' align='\" + User::
text << "right\">";
text << "<pre>";
user->describe(db, text);
text << "</pre></body></html>";

int n = text.pcount();
char temp[100];
(sizeof, temp, 10); // content length
hdr = temp;
hdr = "\n\n";

c-writef (const char *) hdr, hdr.GetLength();
c-writef(buf, n);

delete user;
releaseToPool(tdb);

// diagnostic
void GetRequest::jumpinghere(const char *from)
// fill for multi-db conn
user *user = User::lookupUser(userIP, request, FALSE);

```

```

else {
    "OmniWeb", brOmiWeb, osNEXT);
check userAgent;
    check userAgent,
        "iTM", bTlynA, osUnknown);
    check userAgent,
        "Lynx MBEExplorer", brMEEexplorer, osQ32);
    check userAgent,
        "AIR Mosaic", brAirMosaic, osMin();
    check userAgent,
        "SPR-Mosaic", brMosaic, osMac();
    check userAgent,
        "Macheb", brMacheb, osMin();
    check userAgent,
        "NetNag", brChameleon, osWin();
    check userAgent,
        "MetaSurfer", brMetaSurfer, osNEXT);
    check userAgent,
        "GNN-worke", brGNN, osWin();
    check userAgent,
        "Internet", brInterne, osUnknown);
    check userAgent,
        "Eulaseary", brEulaseary, osUnknown);
    check userAgent,
        "pipamachab", brPipamachab, osMac();
    check userAgent,
        "Internatci", brICI, osUnknown);
    check userAgent,
        "Quarterdeck", brQuardeck, osUnknown);
    check userAgent,
        "MCSA Mosaic for the X", brMCSA, osUnixUnknown);
    if (checkUserAgent, "eWorldbrowser", brEWorlD, osMac) {
        if (checkUserAgent, Find("68K") >= 0 )
            os = osMac68k;
        else if (checkAgent, Find("ppc") >= 0 )
            os = osMacPPC;
        uniqueness = uWo;
        domainType = dtEWorlD;
    }
    else if (check(userAgent, "PRODIGY", brPrODigy, osUnknown) ) {
        uniqueness = uWo;
        domainType = dtPrODigy;
    }
    else if (check(userAgent, "Delphi", brDelphi, osUnknown) ) {
        uniqueness = uWo;
        domainType = dtDelphi;
    }
    else if ( browser == brUnknown ) {
        TRACE("unknown userAgent, %s\n", (const char *) userAgent);
        if(!OS(userAgent))
    }
}

if (userAgent, Find("-via proxy") >= 0 ) {
    proxy = TRUE;
    if (uniqueness == uUnknown )
        uniqueness = uWo;
}

```

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```
// location.cpp
#include "stdafx.h"
#include "object.h"
#include "d/coolkit/mepstate.h"
#include "d/coolkit/truutil.h"

// next line should be in truutil.h
extern CountryTimezoneMap mapCountryTimezones;

struct ldaylightsavings {
    ldaylightsavings() {
        TIME_ZONE_INFORMATION ti;
        DWORD r = GetTimezoneInformation(&ti);
        daylight_savings = r == TIME_ZONE_ID_DAYLIGHT;
    }
};

BOOL daylight_savings;

// ides
// Location::userRelativeTime( time_t timeRelative )
{
    int utc_offset;
    int daylight_bias;

    if ( country == 356 ) {
        if ( getStateTimezoneInfoLocate, utc_offset, daylight_bias )
            return FALSE;
        else if ( country == 0 ) {
            return FALSE;
        }
        else {
            DWORD dwbias;
            if ( mapCountryTimezones.Lookup( country, dwbias ) )
                return FALSE;
            utc_offset = LOWORD( dwbias );
            daylight_bias = HIWORD( dwbias );
        }
    }

    time_t ctime;

    // If timeRelative == 0, this assumes that they want the time
    // relative to the current time
    ctime = timeRelative;
    if ( !ctime )
        ctime = time( &ctime );

    if ( !daylightsavings || daylight_bias != 72 * BIAS_UNDETERMINED )
        ctime += daylight_bias * 60 * 60;
    else
        ctime += utc_offset * 60 * 60;

    return gmtime( &ctime );
}
```

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03-Jan-1996 17:04

```

REQUEST.M
// request.h
//
// #ifndef REQUEST_M_
// #define REQUEST_M_
// #include "d/toolkit/sock.h"
// enum Verb { UNKNOWN, GET, HEAD, POST };
// class Connection;
// class Request
// {
// public:
//     Request(Connection *c, Verb v,
//             const char *requestText,
//             const sockaddr_in &from);
//     virtual void service();
//     DWORD getIP() const { return userIP; }
//     const char *getRequest() const { return request; }
//     Connection *getConnection() const { return c; }
//     void sendInternalError();
// protected:
//     BOOL sendFile(const char *fileName, const char *insertStr = 0);
//     Connection *c;
//     const char *request;
//     Verb v;
//     CString fileName;
//     DWORD userIP;
// };
// void sendError(Connection *c, const char *msg, const char *headerField = 0);
// #endif

```

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```
SERVER.M
// server.h
//
// General ad server startup stuff.
//
bool startServer();
```

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STATUS.M

02-Jan-1996 14:24

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// status.h

void setstatus(iconst char *s);

extern int absent;

extern int jumped;

extern int totalabsent;

extern int totalabsent;

extern int timeOut;

extern int poolTimeOut;

extern int barrier, lanDev, test;

void latency(int n);

void absent(int n);

void absent();

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11-Jan-1996 13:25

REQUEST.M

getrequest.h

```
{ #defined GETREQUEST_M_
#define GETREQUEST_M_
```

```
include "request.h"
include "objects.h"
```

```
use GetRequest : public Request
```

```
public:
    GetRequest(Connection *c, Verb v,
```

```
const char *requestText,
```

```
const sockAddr_int from);
```

```
Request(c, v, requestText, from) { }
```

```
virtual void service();
```

```
protected:
```

```
void whoAmI();
```

```
void jumpWhere(const char *from);
```

```
void send(const char *from);
```

```
void activity(const char *activityStr); // Netscape 2.0 frames
```

```
void sendFrame(const char *from);
```

```
void takeJump(const char *from);
```

```
void sysState();
```

```
void send(Database db, Ad *ad, User *u);
```

```
// send info
```

```
void sendInfo(const char *url);
```

```
void at(const char *url);
```

```
endif
```

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ACCORDING TO

16-Sep-1995 13:13

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// remembered.h

void remembered(ad *ad, User *u, const char *fromDoc);

// returns Ad ID
DnsId queryAdSent(User *u, const char *fromDoc);

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